Dart Aerospace Ltd. Thursday, 6/21/2007 2:27:01 PM Kim Johnston User **Process Sheet** OK TO PROCEED : TUBE ASSEMBLY **Drawing Name** : CU-DAR001 Dart Helicopters Services Customer : 33030 Job Number **Estimate Number** 10921 NIA : D2003041 Part Number P.O. Number · -UNDER REVIEW : 6/21/2007 S.O. No. : NIA **Drawing Number** This Issue : N/A Project Number Prsht Rev. : SMALL /MED FAB. **Drawing Revision** First Issue Material Previous Run : 7/28/2007 **Due Date** Written By Checked & Approved By 99.11.11 Re-format EC : Est: B **Additional Product** Job Number: Description: Machine Or Operation: Seq. #: DOCUMENT CONTROL 1.0 Comment: DOCUMENT CONTROL Photocopy bluefile & type labels per PPP D2003-041 M304TR0500W035 304 RD Tube .500 x .035W 2.0 Comment: Qty.: 0.5145 f(s)/Unit Total: 2.5725 f(s) Batch: <u>H104880</u> Material: 1/2"Æ x 0.035" wall AISI 304 SS tubing M26506 3.0 Firesleeve-crkl .375IDia Comment: Qty.: 0.5250 f(s)/Unit Total: 2.6250 f(s) Material: M2650-6 Heat sleeve MS208198J 4.0 Comment: Qty.: 2.0000 Each(s)/Unit Total: 10.0000 Each(s) Pick: m 103176 x4/m 103344x6 Description Qty Part Number

2 MS20819-8J

Sleeve

5.0 AN8188J Nut

Comment: Qty.:

2.0000 Each(s)/Unit Total:

10.0000 Each(s)

Pick:

Qtv Part Number 2 AN818-8J

Description

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES												
DATE	STEP		PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
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CR-	WORK ORDER NON-CONFOR	RMANCE (NCR)	
		QA: N/C Closed:	Date:
'art No:	PAR #: Fault Category:	NCR: Yes No DQA:	Date: Office C

NCR:		WORK ORDER NON-CONFORMANCE (NCR)												
DATE		Description of NC		Corrective Action Section B	Verification	Annroyal	Approval							
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector						
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NOTE: Date & initial all entries

Date: Thursday, 6/21/2007 2:27:02 PM User: Kim Johnston **Process Sheet** Drawing Name: TUBE ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Job Number: 33030 Part Number: D2003041 Job Number: Description: Seq. #: **Machine Or Operation:** Heat Shrink 6.0 D2182 Comment: Qty.: 0.3750 f(s)/Unit Total: 1.8750 f(s) Pick: **Qty Part Number** Description Batch 1 D2182-045 Heat shrink SMALL FAB 1 SMALL & MEDIUM FAB RESOURCE 1 7.0 Comment: SMALL & MEDIUM FAB RESOURCE 1 1-Cut: 5.88" long as per Dwg D2003 2-Cut: 6.00" long as per Dwg D2003 3-Form tube as per template D2003-041 4-Assemble as per Dwg D2003 8.0 QC5 INSPECT WORK TO CURRENT STEP Comment: INSPECT WORK TO CURRENT STEP 9.0 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 1dentify and Stock Location: QC21 10.0 Comment: FINAL CTION/W/O RELEASE Job Completion 1.6

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W/O:		WORK ORDER CHANGES													
DATE	STEP	PRO	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
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Part No);	PAR #:	Fault Category:		NCR: Yes	No DQA	\:	Date:							

QA: N/C Closed: ____ Date: ____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC		Corrective Action Section B	Verification	Approval	Annroval						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector					
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NOTE: Date & initial all entries





DESIG	(J)	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA							
CHEC	KEP	APPROVED	DRAWING NO. REV. B							
1	46	1 47	D2003 SHEET 1 OF 2							
DATE	,		TITLE SCALE							
99.0	06.08		206 CABIN HEATER TUBE ASSEMBLIES NTS							
Α		90.04.09	NEW ISSUE							
В		99.06.08	UPDATE PER TEMPLATES; ADD P/N'S; 0.025 TUBING NOW 0.035 (TSR1049)							

RELEASED 44.06.08 KE

UNDER REVIEW

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PN	Temph's wrong												
Desc. Material Desc. Desc. Material Desc. Desc.		,	IEATSLEEVE ENGTH	OF TUBE	AS20819-8J SLEEVE	AN818-8J NUT		AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT		467	
Decomposition Color	P/N	TEMPLATE	- E	0 -									
Decidio	D2003-001	T2003-001	5.2		<u> </u>			<u> </u>			TUBE ASS'Y		
Decision	D2003-003	T2003-003							_				
D2003-009 T2003-009 12.38 12.44	D2003-005	T2003-005											
D2003-011 T2003-011 33.31 32.38 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-700/6	D2003-007	T2003-007	20.0	19.63									
D2003-013 T2003-013 T2.7 T3.54	D2003-009	T2003-009	12.38	12.44							TUBE ASS'Y		
D2003-015 T2003-015 T2003-015 T7.2 18.00	D2003-011	T2003-011	33.31										
D2003-017 T2003-017 17.0 16.25 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-700/6 D2003-019 T2003-019 9.8 10.62 2 2 TUBE ASS'Y 6061-T6 0.500 OD x 0.035 W WW-T-700/6 D2003-021 T2003-021 N/A 2.25 2 TUBE ASS'Y 6061-T6 0.500 OD x 0.035 W WW-T-700/6 D2003-023 T2003-023 4.5 5.33 2 2 TUBE ASS'Y 6061-T6 0.500 OD x 0.035 W WW-T-700/6 D2003-025 T2003-025 9.8 10.60 2 2 TUBE ASS'Y 6061-T6 0.500 OD x 0.035 W WW-T-700/6 D2003-027 T2003-027 7.25 7.38 2 2 TUBE ASS'Y 6061-T6 0.500 OD x 0.035 W WW-T-700/6 D2003-029 T2003-029 17.2 18.00 2 2 TUBE ASS'Y 6061-T6 0.500 OD x 0.035 W WW-T-700/6 D2003-031 T2003-033 29.75 29.62 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003	D2003-013	T2003-013	12.7										
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D2003-027 T2003-027 7.25 7.38 2 2 TUBE ASS'Y 6061-T6 0.500 OD x 0.035 W WW-T-700/6 D2003-029 T2003-029 17.2 18.00 2 2 TUBE ASS'Y 6061-T6 0.500 OD x 0.035 W WW-T-700/6 D2003-031 T2003-031 14.6 15.38 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-033 T2003-033 29.75 29.62 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-035 T2003-035 24.7 27.00 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-037 T2003-037 24.81 23.38 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-039 T2003-039 34.0 34.00 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-041 T2003-043 11.7 10.75 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D200	D2003-023	T2003-023	4.5	5.33			2	2					
D2003-029 T2003-029 17.2 18.00 2 2 TUBE ASS'Y 6061-T6 0.500 OD x 0.035 W WW-T-700/6	D2003-025	T2003-025	9.8	10.60									
D2003-031 T2003-031 14.6 15.38 2 2	D2003-027	T2003-027	7.25	7.38			2	2					
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D2003-037 T2003-037 24.81 23.38 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-039 T2003-039 34.0 34.00 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-041 T2003-041 6.0 5.88 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-043 T2003-043 11.7 10.75 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-045 T2003-045 3.50 2.44 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-047 T2003-047 5.56 5.56 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-049 T2003-049 33.2 34.00 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-077 T2003-077 N/A 6.25 1 1 JET 6061-T6 0.375 OD x 0.035 W WW-T-600/6 D2003-103	D2003-033	T2003-033	29.75										
D2003-039 T2003-039 34.0 34.0 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-041 T2003-041 6.0 5.88 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-043 T2003-043 11.7 10.75 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-045 T2003-045 3.50 2.44 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-047 T2003-047 5.56 5.56 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-049 T2003-049 33.2 34.00 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-077 T2003-077 N/A 6.25 1 1 JET 6061-T6 0.375 OD x 0.035 W WW-T-600/6 D2003-103 T2003-103 12.38 12.00 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6	D2003-035	T2003-035	24.7	27.00									
D2003-041 T2003-041 6.0 5.88 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-043 T2003-043 11.7 10.75 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-045 T2003-045 3.50 2.44 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-047 T2003-047 5.56 5.56 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-049 T2003-049 33.2 34.00 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-077 T2003-077 N/A 6.25 1 1 JET 6061-T6 0.375 OD x 0.035 W WW-T-700/6 D2003-101 T2003-103 12.38 12.00 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6	D2003-037	T2003-037	24.81	23.38									
D2003-043 T2003-043 11.7 10.75 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-045 T2003-045 3.50 2.44 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-047 T2003-047 5.56 5.56 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-049 T2003-049 33.2 34.00 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-077 T2003-077 N/A 6.25 1 1 JET 6061-T6 0.375 OD x 0.035 W WW-T-700/6 D2003-101 T2003-101 13.25 13.13 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6 D2003-103 T2003-103 12.38 12.00 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6	D2003-039	T2003-039	34.0	34.00	2								
D2003-045 T2003-045 3.50 2.44 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-047 T2003-047 5.56 5.56 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-049 T2003-049 33.2 34.00 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-077 T2003-077 N/A 6.25 1 1 JET 6061-T6 0.375 OD x 0.035 W WW-T-700/6 D2003-101 T2003-101 13.25 13.13 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6 D2003-103 T2003-103 12.38 12.00 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6	D2003-041	T2003-041	6.0	5.88	2				!				
D2003-047 T2003-047 5.56 5.56 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-049 T2003-049 33.2 34.00 2 2 TUBE ASS'Y CRES 0.500 OD x 0.035 W AISI 304 D2003-077 T2003-077 N/A 6.25 1 1 JET 6061-T6 0.375 OD x 0.035 W WW-T-700/6 D2003-101 T2003-101 13.25 13.13 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6 D2003-103 T2003-103 12.38 12.00 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6	D2003-043	T2003-043	11.7	10.75	2								
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D2003-101 T2003-101 13.25 13.13 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6 D2003-103 T2003-103 12.38 12.00 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6	D2003-049	T2003-049	33.2	34.00	2	2							
D2003-103 T2003-103 12.38 12.00 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6	D2003-077												
D2000-100 12:00 12:00	D2003-101	T2003-101	13.25										
D2003-105 T2003-105 10,75 10.60 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6	D2003-103	T2003-103	12.38										
	D2003-105	T2003-105		10.60									
D2003-107 T2003-107 12.75 12.25 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-600/6									2	2			
D2003-109 T2003-109 8.25 8.125 2 2 TUBE ASS'Y 6061-T6 0.500 OD x 0.035 W WW-T-600/6													
D2003-111 T2003-111 4.75 4.625 2 2 TUBE ASS'Y 6061-T6 0.500 OD x 0.035 W WW-T-600/6	D2003-111			4.625			2	2					
D2003-116 T2003-116 4.0 HEATSLEEVE M2650-20 CRINKLE-SOFT STRATOFLEX	D2003-116												
D2003-120 T2003-120 4.0 HEATSLEEVE M2650-16 CRINKLE-SOFT STRATOFLEX													
D2003-14 T2003-14 4.0 HEATSLEEVE M2650-14 CRINKLE-SOFT STRATOFLEX	D2003-14					لــــــــــــــــــــــــــــــــــــــ							
D2003-16 T2003-16 4.0 HEATSLEEVE M2650-16 CRINKLE-SOFT STRATOFLEX	D2003-16												
D2003-205 T2003-205 9.75 9.60 2 2 TUBE ASS'Y 6061-T6 0.375 OD x Q 035 Why WW-T-700/6						9							
D2003-207 T2003-207 3.75 3.75 2 2 TUBE ASS'Y 6061-T6 0.375 OD x 0.035 W WW-T-700/6	D2003-207	T2003-207	3.75	3.75					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W ₋	→ WW-T-700/6
TXI/383LDIST2												T XIZ IN ILLI	77
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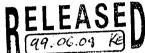
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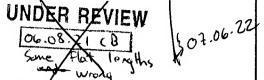
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DESIGN	DRAWN BY		SPACE LTD Intario, canada
CHECKED	APAROVED	DRAWING NO.	REV. B
46	14	D2003	SHEET 2 OF 2
DATE		TITLE	SCALE
99.06.08		206 CABIN HEATER T	UBE ASSEMBLIES NTS





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Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

